

Approved For Release 2009/06/08 : CIA-RDP78T05693A000300010002-7

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CENTRAL INTELLIGENCE AGENCY
PHOTOGRAPHIC INTELLIGENCE CENTER

JOINT PHOTOGRAPHIC INTELLIGENCE OAK REPORT

ARMY - NAVY - CIA - AIR FORCE

PREFACE

THIS IS AN OAK REPORT INSTALLMENT AND REPRESENTS ONE OF MAN'S FIRST ATTEMPTS TO PRODUCE AN INTELLIGENCE REPORT FROM SATELLITE PHOTOGRAPHY. QUALITY OF UNOBSCURED COVERAGE RANGES FROM GOOD TO VERY GOOD AND INCLUDES APPROXIMATELY 1.5 MILLION SQUARE MILES OF THE SINO-SOVIET BLOC. OF THIS COVERAGE AN ESTIMATED 25% IS CLOUD FREE, WITH LIGHT SCATTERED TO HEAVY CLOUDS COVERING THE REMAINDER. BECAUSE OF THE SMALL SCALE WHICH ESTIMATEDLY RANGES FROM 1/300,000 TO 1/450,000, THE NATURE OF THE OPERATING CYCLE, AND THE CHARACTERISTICS OF THE PANORAMIC PHOTOGRAPHY ACHIEVED, IT IS EXPECTED THAT A PRELIMINARY REPORT OF THIS MISSION WILL NOT BE COMPLETED FOR SEVERAL WEEKS. AVERAGE GROUND OBJECT RESOLUTION IS ESTIMATED IN THE ORDER OF 20 TO 30 FEET ON THE SIDE.

EVEN IN PRELIMINARY EXPLOITATION CLOSE COLLABORATION IS REQUIRED AMONG THE PHOTO INTERPRETERS, PHOTOGRAMMETRISTS, PHOTO LABORATORY PERSONNEL, SCIENTIFIC INTELLIGENCE AND COLLATERAL DATA SPECIALISTS. BECAUSE OF THE PECULIAR MENSURATION PROBLEMS POSED BY THE MATERIAL, ALL MEASUREMENTS NOTED HEREIN SHOULD BE TREATED AS TENTATIVE UNTIL FULL PHOTOGRAMMETRIC ANALYSIS CAN BE ACCOMPLISHED. THE AMOUNT OF GEOGRAPHIC-ECONOMIC DATA AND THE NUMBER OF INTELLIGENCE TARGETS ARE CONSIDERABLE, AND THE POTENTIAL USE OF THE MATERIAL FOR CHARTING AND POSSIBLE GEODETIC ASSISTANCE APPEARS TO BE GOOD.

THE MOST STRINGENT USE OF THE NEED TO KNOW PRINCIPLE WITHIN THE SECURITY LIMITATIONS OF THE TALENT-KEYHOLE SYSTEM MUST APPLY TO ALL WOULD-BE CONSUMERS OF RAW MATERIALS AS WELL AS FINISHED REPORTS RESULTING FROM THIS MISSION.

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INTRODUCTION

THIS IS THE FIRST IN A SERIES OF OAK REPORTS DEALING WITH PRIORITY ITEMS OF INTELLIGENCE SIGNIFICANCE APPEARING ON PHOTOGRAPHY OF MISSION 9009. THIS REPORT COVERS THE OAK-REPORTING PERIOD FROM 0830 HOURS, 25 AUGUST 1960, THROUGH 1500 HOURS, 26 AUGUST 1960.

OAK PHOTOGRAPHIC INTELLIGENCE TEAMS ARE ENGAGED IN A TWO-PHASE EXPLOITATION OF MISSION 9009. THE FIRST PHASE IS CONCERNED WITH AN INITIAL SCAN OF PHOTOGRAPHY AND AN INDEXING OF ALL ITEMS OF INTELLIGENCE SIGNIFICANCE. A COMPLETE INDEX OF INTELLIGENCE ITEMS WILL BE PUBLISHED AFTER COMPLETION OF THE OAK-REPORTING PERIOD. THE SECOND PHASE IS CONCERNED WITH A PRELIMINARY ANALYSIS OF PRIORITY ITEMS UNCOVERED IN THE INITIAL SCAN. THESE ITEMS ARE THE SUBJECT OF THE DAILY OAK REPORTS.

THE DAILY OAK REPORTS WILL CONSIST, BASICALLY, OF A BRIEF INTRODUCTION AND SUMMARY, FOLLOWED BY A LISTING OF PRIORITY ITEMS WHICH HAVE BEEN THE SUBJECT OF PRELIMINARY ANALYSIS. THESE ITEMS WILL BE REPORTED IN THE FOLLOWING PREASSIGNED CATEGORIES.

- A. GUIDED MISSILES AND ELECTRONICS
- B. NUCLEAR ENERGY
- C. AIRFIELDS
- D. MILITARY INSTALLATIONS
- E. PORTS AND HARBORS
- F. MAJOR COMPLEXES
- G. MISCELLANEOUS ITEMS

FOR PURPOSES OF CONSISTENCY, THE ABOVE CATEGORIES WILL APPEAR IN THE OAK REPORT EVERY DAY, EVEN IF NO PRIORITY ITEMS ARE LISTED WITHIN THE CATEGORY. FURTHER INFORMATION RESULTING FROM ADDITIONAL PRELIMINARY ANALYSIS OF PREVIOUSLY REPORTED ITEMS WILL BE INCORPORATED IN SUBSEQUENT OAK REPORTS.

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SUMMARY

DURING THE CURRENT REPORTING PERIOD, [REDACTED]

ROUGHLY 32 PERCENT OF MISSION 9009 -- WERE SCANNED FOR ITEMS OF INTELLIGENCE SIGNIFICANCE (SEE ACCOMPANYING TRACK MAP). IT SHOULD BE NOTED, HOWEVER, THAT PRELIMINARY ANALYSIS HAS NOT BEEN COMPLETED ON ALL PRIORITY ITEMS WITHIN THE AREA SCANNED. ITEMS ON WHICH PRELIMINARY ANALYSIS HAS BEEN COMPLETED ARE INCLUDED IN THIS REPORT.

SUMMARIZED BELOW ARE THE MAJOR ITEMS OF INTELLIGENCE INTEREST

GUIDED MISSILES

SARY SHAGAN

PHOTOGRAPHIC COVERAGE OF THE ANTIMISSILE DEFENSE TEST CENTER, SARY SHAGAN, USSR, IS LIMITED TO THE WESTERN EXTREMITY OF A PRESUMED 1,050-NAUTICAL-MILE IMPACT AREA FOR THE KAPUSTIN YAR MISSILE TEST RANGE. TWO INTERFEROMETER-TYPE SITES, ONE NEW, WITH ASSOCIATED AIRFIELDS WERE IDENTIFIED. NEITHER AIRFIELD WAS SEEN ON PREVIOUS COVERAGE.

SAM SITES

FIVE NEW HEXADIC SA-2 SAM SITES WERE CONFIRMED. IN ADDITION, FOUR POSSIBLE SITES WERE NOTED UNDER CONSTRUCTION.

AIRFIELDS

ONE NEW AIRFIELD WAS OBSERVED UNDER CONSTRUCTION AT 59 14N - 39 17E, 20 NM WEST OF VOLOGDA. EIGHT ADDITIONAL AIRFIELDS WERE COVERED DURING THE REPORTING PERIOD.

DETAILS

PRELIMINARY ANALYSIS WAS COMPLETED ON THE FOLLOWING ITEMS DURING THE CURRENT OAK-REPORTING PERIOD.

A. GUIDED MISSILES AND ELECTRONICS

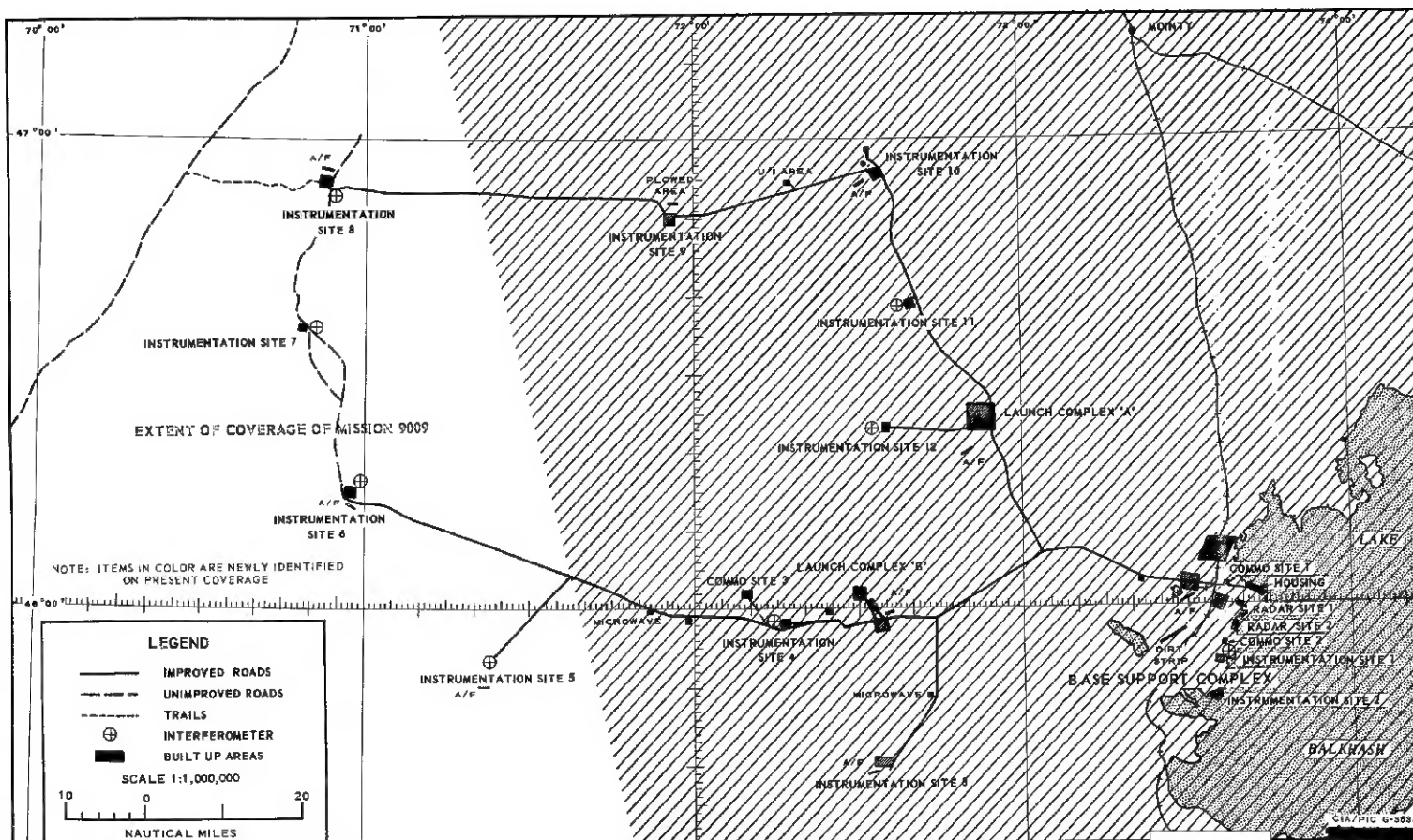
1. ANTIMISSILE DEFENSE TEST CENTER, SARY SHAGAN, USSR

PHOTOGRAPHIC COVERAGE OF THE ANTIMISSILE DEFENSE TEST CENTER, SARY SHAGAN, USSR, IS LIMITED TO THE WESTERN EXTREMITY OF A PRESUMED 1,050-NAUTICAL-MILE IMPACT AREA FOR THE KAPUSTIN YAR MISSILE TEST RANGE. THE SPECIFIC INSTALLATIONS IDENTIFIED TO DATE INCLUDE INSTRUMENTATION SITES 5, 6, 7, AND 8 (SEE ACCOMPANYING MAP OF THE SARY SHAGAN AREA AND CIA/PIG/JB-119/60).

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MAP OF THE SARY SHAGAN AREA. This map presents locations of the various installations at the Antimissile Defense Test Center as they appear on photography

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INSTRUMENTATION SITE 5 (45 51N - 71 23E) -- THE EXISTENCE OF AN INTERFEROMETER-TYPE SITE AT SITE 5 IS CONFIRMED, AND, IN ADDITION, THERE IS AN AIRFIELD AT SITE 5. THE INTERFEROMETER-TYPE SITE IS LOCATED NE OF THE SITE SUPPORT AREA AND THE AIRFIELD IS LOCATED S OF THE SUPPORT AREA.

INSTRUMENTATION SITE 6 (46 15N - 70 58E) -- TWO ADDITIONAL MAJOR FACILITIES, WHICH WERE CLOUD-COVERED [REDACTED] HAVE BEEN IDENTIFIED AT SITE 6. THESE FACILITIES CONSIST OF AN INTERFEROMETER-TYPE SITE AND AN AIRFIELD. THE INTERFEROMETER-TYPE SITE IS LOCATED NE OF THE SITE SUPPORT AREA, AND THE AIRFIELD IS LOCATED SE OF THE SUPPORT AREA.

INSTRUMENTATION SITE 7 (46 36N - 70 50E) -- TO DATE, COMPARISON OF THE PRESENT COVERAGE [REDACTED] REVEALS NO ADDITIONAL FACILITIES AT SITE 7.

INSTRUMENTATION SITE 8 (46 54N - 70 55E) -- TO DATE, COMPARISON OF THE PRESENT COVERAGE [REDACTED] REVEALS NO ADDITIONAL FACILITIES AT SITE 8.

2. HEXADIC SA-2 SAM SITES

A TOTAL OF 8 SA-2 SAM SITES, 4 POSSIBLE SAM SITES UNDER CONSTRUCTION, AND 1 SAM SUPPORT FACILITY HAVE BEEN IDENTIFIED DURING THE CURRENT REPORTING PERIOD. A TABULATION OF THE SAM SITES FOLLOWS.

SITE NO	COORD	DISTANCE/DIRECTION FROM CITY	STATUS
1	59 13N - 38 28E	17 NM ENE OF CHEREPOVETS	POSS SITE U/C
2	58 10N - 38 55E	7 NM NNE OF SHCHERBAKOV	POSS SITE U/C
3	57 20N - 42 42E	17 NM ESE OF KINESHMA	U/C
4	56 48N - 43 04E	40 NM NW OF GORKIY	COMPLETE
5	56 10N - 43 30E	17 NM SW OF GORKIY	COMPLETE
6	56 02N - 42 57E	37 NM SW OF GORKIY	POSS SITE U/C
7*	56 14N - 44 30E	19 NM ESE OF GORKIY	COMPLETE
8*	54 49N - 43 01E	13 NM SW OF SAROVA	COMPLETE
9*	54 50N - 43 07E	9 NM SW OF SAROVA	COMPLETE
10	54 59N - 43 24E	4 NM NE OF SAROVA	COMPLETE
11	55 02N - 43 35E	10 NM NE OF SAROVA	COMPLETE
12	54 45N - 43 19E	11 NM SOUTH OF SAROVA	POSS SITE U/C

* PREVIOUSLY IDENTIFIED ON TALENT PHOTOGRAPHY

THE SAM SUPPORT FACILITY IS LOCATED AT 54 55N - 43 17E, 3 NM W OF SAROVA. THIS FACILITY WAS PREVIOUSLY IDENTIFIED ON

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TALENT PHOTOGRAPHY, AND WAS COMPLETE AND OPERATIONAL AT THE TIME OF THAT PHOTOGRAPHY.

B. NUCLEAR ENERGY

NO ITEMS DURING THE CURRENT REPORTING PERIOD

C. AIRFIELDS

BECAUSE OF LIMITATIONS IMPOSED BY THE MATERIALS ON HAND DURING THE CURRENT REPORTING PERIOD, AIRCRAFT COUNTS ARE NOT AVAILABLE FOR THE AIRFIELDS LISTED BELOW. HOWEVER, PROCESSING OF MATERIALS CURRENTLY UNDER WAY MAY PERMIT GENERALIZED COUNTS OF AIRCRAFT IN THE FUTURE. THESE COUNTS WILL BE REPORTED AS THEY ARE MADE AVAILABLE.

1. CHIMKENT AIRFIELD

42 20N - 69 32E

[REDACTED]

7,900 X 190 FT WNW/ESE BLACKTOP RUNWAY

6,600 X 250 FT WNW/ESE DIRT RUNWAY

(MEASUREMENTS FROM [REDACTED])

DIAGONAL TAXIWAY HAS BEEN ADDED BETWEEN RUNWAYS SINCE TALENT PHOTOGRAPHY [REDACTED]

2. CHIMKENT SOUTHEAST AIRFIELD

42 17N - 69 38E

[REDACTED]

SOD LANDING AREA

3. CHIRCHIK AIRFIELD

41 30N - 69 34E

[REDACTED]

9,500 X 290 FT ENE/WSW DIRT RUNWAY

8,000 X 240 FT NE/SW BLACKTOP RUNWAY

(MEASUREMENTS [REDACTED])

NO APPARENT CHANGE SINCE TALENT PHOTOGRAPHY [REDACTED]

[REDACTED]

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4. DZHAMBUL WEST AIRFIELD
42 52N - 71 22E

[REDACTED]
SOD RUNWAY ORIENTED N/S

5. SHCHERBAKOV AIRFIELD
58 00N - 38 50E

[REDACTED]
4,600 X 2,800 FT SOD LANDING AREA
(MEASUREMENTS FROM ASSOTW)

6. SHCHERBAKOV NORTHEAST AIRFIELD
58 06N - 38 56E

[REDACTED]
3,500 X 320 FT NE/SW CONCRETE RUNWAY
(MEASUREMENTS FROM ASSOTW)

7. TALAS AIRFIELD
42 31N - 72 14E

[REDACTED]
3,400 X 100 FT ESE/WNW SOD RUNWAY
(MEASUREMENTS FROM [REDACTED])

NO APPARENT CHANGE SINCE TALENT PHOTOGRAPHY [REDACTED]
[REDACTED]

8. NEW AIRFIELD 1 NM E OF TAMOZHIYA VILLAGE

39 25N - 49 16E
[REDACTED]

BLACKTOP RUNWAY ORIENTED NE/SW

THIS IS POSSIBLY NEFTECHALA AIRFIELD. NEFTECHALA AIRFIELD
APPEARS ON THE TARGET CHART APPROXIMATELY 8 NM SSW OF
THIS LOCATION, BUT NO AIRFIELD IS VISIBLE IN THAT AREA.

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9. NEW AIRFIELD U/C 20 NM W OF VOLOGDA
59 14N - 39 17E

7,800 X 150 FT N/S CONCRETE RUNWAY
(MEASUREMENTS FROM KEYHOLE MISSION 9009)

SCATTERED CLOUDS PRECLUDE DETERMINATION OF SUPPORT
FACILITIES.

10. AIRFIELDS PREVIOUSLY REPORTED BUT NOT LOCATED OR CLOUD-
COVERED

ALAPAYEVSK AIRFIELD
57 52N - 61 45E

BOGOYAVLENSKOYE AIRFIELD
53 16N - 40 18E

DALLYAR AIRFIELD
40 53N - 45 58E

DERBENT AIRFIELD
42 06N - 48 17E

DZHAMBUL WEST AIRFIELD
42 51N - 71 22E

FROLOVO AIRFIELD
49 45N - 43 42E

INTA AIRFIELD
3N - 60 03E

KARA-CHALA AIRFIELD
39 50N - 48 58E

KONOSHA AIRFIELD
60 59N - 40 18E

KURGAN AIRFIELD
55 24N - 65 04E

LENKORAN AIRFIELD
38 44N - 48 49E

MICHURINSK AIRFIELD
52 56N - 40 31E

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NIKIFOROVKA AIRFIELD
52 53N - 40 48E

NOSOVAYA AIRFIELD
68 17N - 54 29E

SHADRINSK AIRFIELD
56 05N - 63 38E

TURKESTAN AIRFIELD
43 16N - 68 10E

TYUMEN AIRFIELD
57 09N - 65 33E

UST KOZHVA AIRFIELD
65 08N - 57 07E

D. MILITARY INSTALLATIONS

NO ITEMS DURING THE CURRENT REPORTING PERIOD

E. PORTS AND HARBORS

NO ITEMS DURING THE CURRENT REPORTING PERIOD

F. MAJOR COMPLEXES

1. SHCHERBAKOV

52 03N - 38 51E

[REDACTED]

SHCHERBAKOV IS COMPLETELY COVERED BY PHOTOGRAPHY, AND
APPEARS RELATIVELY UNCHANGED SINCE WORLD WAR II [REDACTED]
PHOTOGRAPHY. SCATTERED CLOUDS OBSCURE PORTIONS OF THE AREA.

2. TASHKENT

41 18N - 69 17E

[REDACTED]

THE CITY OF TASHKENT IS COMPLETELY COVERED BY CLOUD-FREE
PHOTOGRAPHY.

3. VOLOGDA

59 13N - 39 54E

[REDACTED]

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VOLOGDA IS COMPLETELY COVERED BY CLOUD-FREE PHOTOGRAPHY. THERE HAS BEEN MODERATE INDUSTRIAL AND RESIDENTIAL EXPANSION SINCE WORLD WAR II [REDACTED] PHOTOGRAPHY.

SINCE 1943 A PROBABLE MILITARY STORAGE AREA HAS BEEN CONSTRUCTED ADJACENT TO THE VOLOGDA ARMY SUPPLY DEPOT. THE STORAGE AREA IS RAIL-SERVED AND CONTAINS MORE THAN 50 BUILDINGS.

AN UNIDENTIFIED INDUSTRIAL AREA COVERING MORE THAN 150 ACRES, CONSTRUCTED SINCE 1943, IS LOCATED NE OF THE VOLOGDA THERMAL POWER PLANT AND TEXTILE COMBINE. THIS AREA IS RAIL-SERVED AND CONTAINS AT LEAST 4 LARGE BUILDINGS.

A THIRD HIGHWAY BRIDGE HAS BEEN CONSTRUCTED ACROSS THE VOLOGDA RIVER SINCE 1943.

G. MISCELLANEOUS ITEMS

MINING ACTIVITY SE OF NYANDOMA
61 39N - 40 15E
[REDACTED]

4 MINING AREAS AND 1 SUPPORT AREA ARE APPARENT. RAIL SPUR FROM NYANDOMA SERVES 3 OF THE MINING AREAS. RAIL SPUR UNDER CONSTRUCTION FROM NYANDOMA TO 4TH MINING AREA, WHICH APPEARS TO BE OF MOST RECENT ORIGIN. GROUND SCARRING INDICATES HEAVY ACTIVITY IN MINING AREAS.